	Application No.	Applicant(s)
Notice of Allowability	09/680,118	AVNER ET AL.
	Examiner	Art Unit	
	Baoquoc N. To	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *07/20/2005*.

2. ☒ The allowed claim(s) is/are *1-25 and 27-30*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *10/03/2005* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .
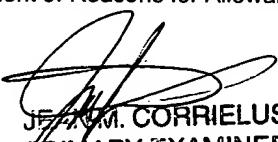
JEAN M. CORRIELUS
PRIMARY EXAMINER

DETAILED ACTION

1.   Claims 1-25 and 27-30 are pending in this application.

EXAMINER'S AMENDMENT

3.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview

with Jens C. Jenkins Reg. No. 44,803 on 10/03/05

The application has been amended as follows:

1. (Currently Amended) In a database management system ~~that include~~ including

a database engine ~~which~~ receives and implements high-level document commands,

each high-level document command comprising one or more applications to be

performed on a document, a method for allowing client applications to control how a

particular high-level document command is implemented, the method comprising the

following:

an act of receiving a single high-level document command meeting certain

criteria, the single high-level document command including one or more operations to

be performed on a document comprising one of an e-mail document and a folder having

an e-mail document, and resulting in a number of table level command being execute

resulting in one or more database tables being updated;

prior to implementing the single high-level document commands, an act of

identifying one or more client applications that are to be notified of the receipt of high-

level document commands meeting certain criteria, wherein identifying the one or more

client applications that are to be notified of the receipt of high commands includes

having the one or more client applicants subscribe for notification of the receipt of high-

level document commands meeting the certain criteria;

prior to implementing the single high-level document command, an act of

notifying the one or more identified client applications that the single high-level

document command meeting the certain criteria has been viewed, notification of the one

or more client applications being triggered solely as a result of receiving the single high-

level document command;

an act of receiving modifying instructions from the one or more client applications

on how to affect the implementation of the single high-level document command; and

an act of altering the one or more operations included in the single high-level

document command according to the modifying instructions.

17.   (Currently amended) In a database management system including a

database engine which accesses and updates objects in a database, the database

engine receiving high-level document commands, each high-level document command

for performing an operation on a document associated with a plurality of tables in the

database, a method for allowing client application to control how a particular high-level

document command is implemented in the database, the method comprising the

following:

an act of receiving a single high-level document command meeting certain

criteria the single high-level document command including one or more operations to be

performed on a document comprising one of an e-mail document and a folder having an

e-mail document, and that result resulting in a number of table level commands being

executed and resulting that result in one or more database tales being updated; and

a step for allowing one or more client applications to determine whether the

received single high-level command is to be implemented an to affect how the received

single high-level document command is to be implemented in the database,

the step of allowing one or more client application to affect how the single high-

level document command is to be implemented, including:

an act of identifying one or more client application to be notified of the

receipt of high-level document commands meeting certain criteria, wherein

identifying the one or more client applications to be notified of the receipt of high-

level document commands includes having the one or more client application

subscribe for notification of the receipt of high-level document commands

meeting the certain criteria, and

an act of notifying the one or more identified client application a high-

level document command meeting the certain criteria has been received prior to

implementing the single high-level document command and solely in response to

receiving the single high-level document command.

19.   (Currently amended) A computer program product for use in a database

management system including a database engine including a database engine which

receives and implements high-level document commands, each high-level document command comprising one or more operations to be performed, a computer program product for implementing a method for allowing client applications to control how a particular high-level document command is implemented, the computer-readable medium having computer-executable instructions for performing the following:

an act of detecting the receipt of a single high-level document command meeting certain criteria, the single high-level document command including one or more operations to be performed on document comprising one of an e-mail document and a folder having an e-mail document, resulting in a number of table level commands being executed and resulting in one of more database tables being updated;

prior to implementing the sing high-level document command, an act of identifying one or more client applications to be notified of the receipt of high-level document commands meeting certain criteria, wherein identifying the one or more client applications to be notified of the receipt of high-level document commands including having the one or more client applications subscribe for notifications of the receipt of high-level document commands meeting the certain criteria;

prior implementing the single high-level document command, an act of causing the one or more identified client applications to be notified that the high level-document command meeting certain criteria has been received, notification of the one or more client applications being triggered solely as a result of receiving the single high-level document command;

an act of detecting the receipt of modifying instruction from the one or more client

application on how to affect the implement of the single high-level document command;

and

an act of altering the one or more operations included in the single high-level

document commands according to the modifying instruction.

Allowable Subject Matter

3.   Claims 1-25 and 27-30 are allowed over prior art made of records.

As to claim 1, none of the known prior art alone or incombination either teach or

suggest "an act of receiving a single high-level document command meeting certain

criteria, the single high-level document command including one or more operations to

be performed on a document comprising one of an e-mail document and a folder having

an e-mail document, and resulting in a number of table level command being execute

resulting in one or more database tables being updated; prior to implementing the single

high-level document commands, an act of identifying one or more client applications

that are to be notified of the receipt of high-level document commands meeting certain

criteria, wherein identifying the one or more client applications that are to be notified of

the receipt of high commands includes having the one or more client applicants

subscribe for notification of the receipt of high-level document commands meeting the

certain criteria; prior to implementing the single high-level document command, an act

of notifying the one or more identified client applications that the single high-level

document command meeting the certain criteria has been viewed, notification of the one

or more client applications being triggered solely as a result of receiving the single high-

level document command" in conjunction with "an act of receiving modifying instructions

from the one or more client applications on how to affect the implementation of the

single high-level document command; and an act of altering the one or more operations

included in the single high-level document command according to the modifying

instructions."

Claims 2-16 are depended on claims 1; therefore, they are allowed under the

same reason as to claim 1.

Claim 19 is a computer program product for performing the method recited in

claim 1; therefore, the claim 19 is allowed under same reason as to claim 1.

Claims 20-24 are depended on claim 19; therefore, they are allowed under the

reason as to claim 19.

Claim 25 is the database management system to perform the method recited

claim 1; therefore, claim 25 is allowed under the same reason as to claim 1.

Claims 27-30 are depended on claim 25; therefore, they are allowed under the

same reason as to claim 25.

As to claim 17, none of the known prior art alone or incombination either teach

for suggest "an act of receiving a single high-level document command meeting certain

criteria the single high-level document command including one or more operations to be

performed on a document comprising one of an e-mail document and a folder having an

e-mail document, and that result resulting in a number of table level commands being

executed and resulting that result in one or more database tales being updated; and

a step for allowing one or more client applications to determine whether the

received single high-level command is to be implemented an to affect how the received

single high-level document command is to be implemented in the database, the step of

allowing one or more client application to affect how the single high-level document

command is to be implemented, including: act of identifying one or more client

application to be notified of the receipt of high-level document commands meeting

certain criteria, wherein identifying the one or more client applications to be notified of

the receipt of high-level document commands includes having the one or more client

application subscribe for notification of the receipt of high-level document commands

meeting the certain criteria, and an act of notifying the one or more identified client

application a high-level document command meeting the certain criteria has been

received prior to implementing the single high-level document command and solely in

response to receiving the single high-level document command."

Claim 18 is depended on claim 17; therefore, claim 18 is allowed under the same

reason as to claim 17.

Conclusion

4.   prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Patent

Aver et al.   S. Patent No. 6,868,418 B1)   Patent date: 03/15/2005.

Galeazzi et al.   (US. Patent No. 6,535,868)   Patent date: 03/18/2003.

NPL

Whitlow et al. Providing appropriate situation awarness within a mixed-initiative control,

System, Man and Cybernetic, 10/6-9/2002, pages 5.

Carzaniga et al. Design and Evaluation of a Wide-Area event Notification Service, ACM

Transactions on Computer system, August 2001, page 332-383.

Contact Information

5.   inquiry concerning this communication or earlier communications from the
examiner should be directed to Baoquoc N. To whose telephone number is at 571-272-
4041 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached
on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's
supervisor, John Breene can be reached at 571-272-4107.

Any inquiry of a general nature or relating to the status of this application or
proceeding should be directed to the receptionist whose telephone number is (703) 305-
3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is
assigned are as follow:

(571) –273-8300   [Official Communication]

BQ To
Nov 3rd, 2005

JEAN M. CORRIELUS
PRIMARY EXAMINER